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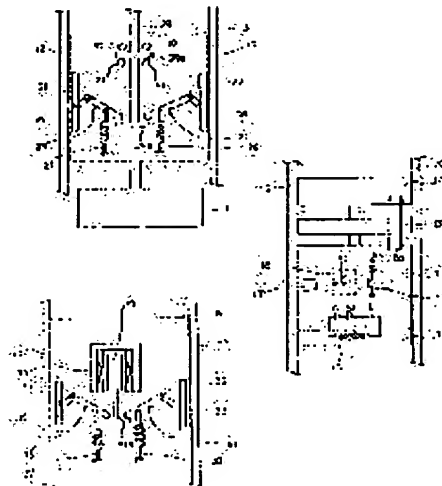
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(54) ROPELESS LINEAR MOTOR ELEVATOR**(57)Abstract:**

PURPOSE: To instantly stop a cage in the case that the motive force is abnormally reduced by detecting the acceleration of the cage with an accelerometer and monitoring the cage with a monitoring part, and also operating a braking device when the acceleration is larger than the specified value.

CONSTITUTION: A cage 11 is stopped by the frictional force caused between respective shoes 25, 26, 35 and 36, and respective rails 12 by means of energizing force of a spring. Meanwhile, the cage 11 is operated such that a motive body 14 moves a first brake device 13 and an operating lever 29 upwardly through motive force, thus releasing the braking. After that, the motive force is increased and the plunger is moved upwardly, thus releasing the braking of a second brake device 15. In elevation of the cage 11, when the motive force is abnormally reduced, and the output voltage from an accelerometer 17 of the cage 11 exceeds the specified value V_a , no signal is outputted from a comparator 18 thereby applying no current to a transistor 19. Thus, a relay contact B1 is released by a relay coil B. Therefore, the current-carrying for an electromagnetic coil 16 is stopped, thereby stopping the cage 11 by the brake device 15 with safety. Furthermore, the power supply of the motive body 14 is cut-off by the relay contact B2.

**LEGAL STATUS**

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